

IN THE CLAIMS:

The following listing reflects the current version of all claims, and replaces all earlier versions and listings:

Claim 1. (Currently Amended) A radiation image pick-up device comprising: a plurality of pixels disposed in matrix, each of the pixels including at least one photoelectric conversion element for converting incident radiation into electric charges; and a signal output circuit for outputting signals from the pixels, the radiation image pick-up device being characterized in that:

a plurality of signal reading wirings through which the pixel and the signal output circuit are connected to each other are provided for each pixel, and

in that each of the pixels includes semiconductor elements connected to each of the signal reading wirings, and each of the signal reading wirings is selectable based on an actuation of the semiconductor element.

Claim 2. (Original) A radiation image pick-up device according to claim 1, characterized in that the photoelectric conversion element includes a wavelength conversion member for performing wavelength conversion on incident radiation.

Claim 3. (Currently Amended) A radiation image pick-up device according to claim 1, characterized in that ~~each of the pixels includes semiconductor elements connected to the signal reading wirings, and any one of the signal reading wirings is freely~~

selectable based on actuation of the semiconductor elements according to a dosage of the radiation.

Claim 4. (Original) A radiation image pick-up device according to claim 3, characterized in that at least one of the semiconductor elements is a source follower.

Claim 5. (Original) A radiation image pick-up device according to claim 1, characterized in that a signal reading circuit for reading out a signal from the pixel is provided to each of the signal reading wirings.

Claim 6. (Original) A radiation image pick-up device according to claim 1, characterized in that a signal reading circuit for reading out a signal from the pixel is provided in common to the signal reading wirings.

Claim 7. (Original) A radiation image pick-up device according to claim 1, characterized in that the two signal reading circuits are provided.

Claim 8. (Currently Amended) A radiation image pick-up method comprising:

using a device which includes: a plurality of pixels disposed in matrix, each of the pixels including at least one photoelectric conversion element for converting incident

radiation into electric charges; and a signal output circuit for outputting signals from the pixels, the radiation image pick-up method being characterized in that:

said device includes respectively semiconductor element connected to each of the signal reading wirings, and

the semiconductor device is operated such that any one of a plurality of signal reading wirings which are provided for each pixel and through which the corresponding pixel and the signal output circuit are connected to each other is selected and used in correspondence to a photographing mode to be used.

Claim 9. (Original) A radiation image pick-up method according to claim 8, characterized in that the photoelectric conversion element performs wavelength conversion on incident radiation, and converts the conversion results into electric charges.

Claim 10. (Currently Amended) A radiation image pick-up method according to claim 8, characterized in that the semiconductor device is operated such that any one of the plurality of signal reading wirings is selected in correspondence to magnitude of a dosage of radiation.

Claim 11. (Original) A radiation image pick-up method according to claim 9, characterized in that each of the pixels includes semiconductor elements connected to the plurality of signal reading wirings, and at least one of the semiconductor elements is a

source follower, and when in case of the photographing mode involving a low dosage of radiation, the signal reading wiring having the source follower is selected.

Claim 12. (Original) A radiation image pick-up system, characterized by comprising:

a radiation image pick-up device as claimed in claim 1;

radiation generation means for applying radiation;

selection means for selecting any one of the plurality of signal reading wirings in the radiation image pick-up device in correspondence to magnitude of a dosage of radiation; and

control means for controlling the application of the radiation by the radiation generation means and drive of the radiation image pick-up device based on the selection by the selection means.

Claim 13. (Original) A radiation image pick-up system according to claim 12, further comprising a photographing switch with which any one of the plurality of signal reading wirings is freely selectable based on an input by an operator, the radiation image pick-up system being characterized in that the selection means selects any one of the signal reading wirings based on input made with the photographing switch.

Claim 14. (Original) A radiation image pick-up system according to claim 13, characterized in that the photographing switch is adapted to be switched ON into a

plurality of strokes corresponding to the number of the signal reading wirings, and the respective strokes correspond to an increase in dosage of radiation in ascending order.